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INSTRUCTION MANUAL

COMPACT DISC PLAYER

gcd-200 / gcd-300

ADCOM

11 Elkins Road
East Brunswick, N.J.
08816 U.S.A.
201/390-1130
Telex 844430

ADDENDUM TO THE ADCOM GCD 200/300 OWNER'S MANUAL

The following feature has been added to the ADCOM GCD 200/300 compact disc player subsequent to the printing of the owner's manual.

ADCOM'S Sound WindowTM Frequency Contour Selector

Our research indicated that the sound quality of many vocal and instrumental CDs could be greatly improved by introducing corrective frequency contouring to compensate for the unnatural sonic energy balance in many CDs.

A three-position switch provides a choice of playback response curves which can be used to improve the spectral balance of those CDs that need it. As a result, such CDs can emulate the musicality of the finest analog recordings while maintaining the low noise and dynamic range advantages of digital technology.

The three-position selector is located on the rear panel of your compact disc player.

Mid Position

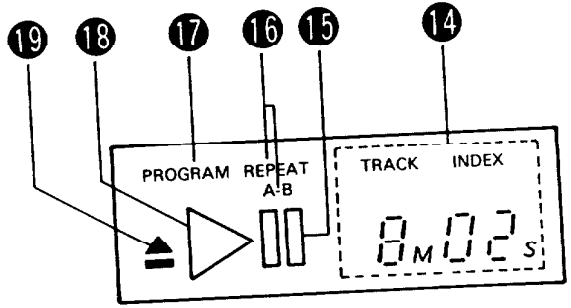
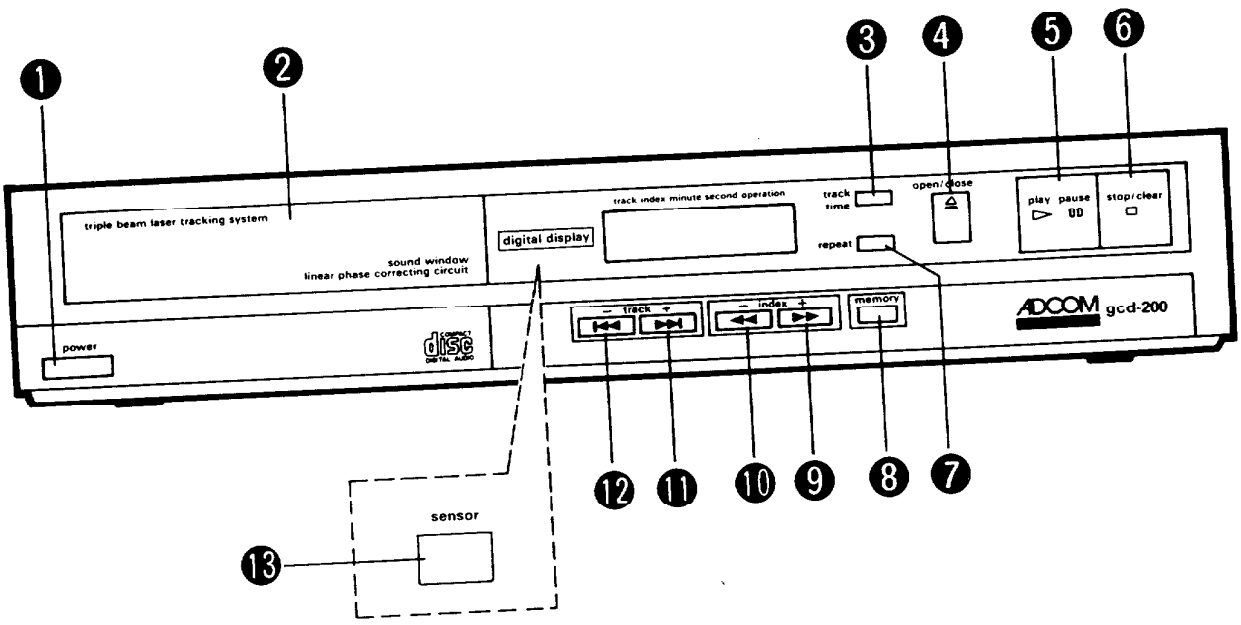
In the mid position the Sound Window Frequency Contour Selector is not in the audio circuit.

Upper Position

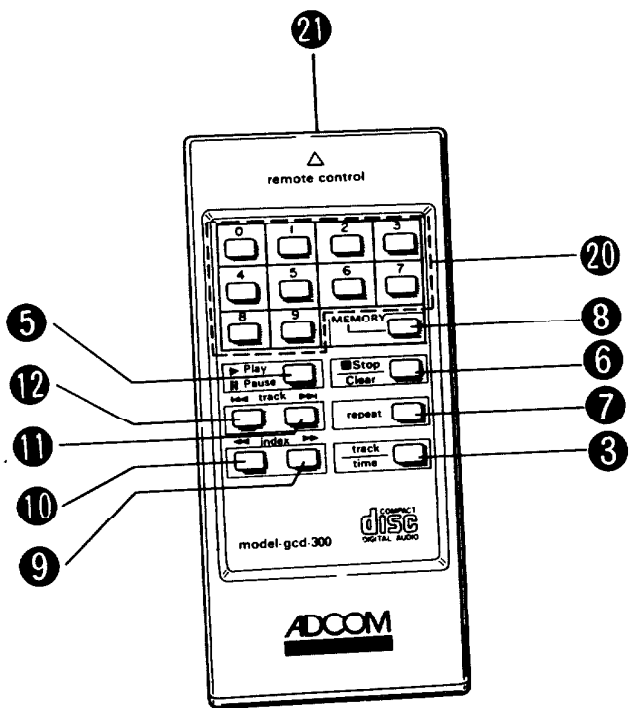
In the up position, the Sound Window Frequency Contour selector attenuates the frequencies immediately above the range of the human voice. This position can be used with any recordings that, due to close microphone techniques, have a hardness or edge.

Lower Position

In the lower position, the Sound Window Frequency Contour selector attenuates the frequencies just above the upper end of most musical instruments. This position will help to relieve the harshness and glare found in many instrumental recordings.



Remote Control Unit
Model gcd-300 only



3 Track/Time button

Press to change the Digital display 14 from track (/index) display to time display, and vice versa.

4 Drawer Open/Close button

Press this when loading or unloading a disc.

5 Play/Pause button (▶/■)

Press to begin play; the play indicator 10 will light. Press during play to temporarily stop play; the Pause indicator 15 will light. Press this button to resume play at the point where it was paused.

6 Stop/Clear button (■)

Press this button to stop play or to clear the program.

7 Repeat button

This button is pressed when performing repeat play.

8 Memory button

This button is pressed when memorizing programs for random memory search system.

9 Fast forward/Index button (▶▶)

Press to advance the track number forward at high speed. Also press to designate index numbers.

10 Fast reverse/Index button (◀◀)

Press to move the track number in reverse at high speed. Also press to designate index numbers.

11 Forward skip/Track number button (▶▶)

Press to select a desired track number on the disc. Each time the button is pressed, the track number moves forward.

12 Reverse skip/Track number button (◀◀)

Press to select a desired track number on the disc. Each time the button is pressed, the track number moves back one track number.

13 Remote sensor window Model gcd-300 only

Signals from the wireless remote control are received here.

Track/Time button 14.

TRACK — with a disc loaded and in the stop mode, shows the total number of tracks on the disc. During play, shows the number of the track being played.

INDEX — during play, shows the index number of the portion of the track being played. If the disc does not have index information, "01" will remain on the display.

M/S — with a disc loaded and in the stop mode, shows the total playing time of the disc. During play, shows the elapsed time from the beginning of the track, even if you began in the middle of the track or used ◀◀ or ▶▶ during play.

15 Pause indicator

Lights during a pause.

16 Repeat indicator

This indicator lights during normal repeat play, and "A-B" lights during repeat play between two designated points.

17 Program indicator

Lights during program play when using the random memory function.

18 Play indicator

Flashes during access (high-speed movement) and lights during play.

19 Open/Close indicator

This indicator flashes when the drawer is opening and closing. When the drawer is fully open or closed, the indicator goes out.

Model gcd-300 only

20 Program number buttons (0 — 9)

Used for program play with random memory search system, or for track number selection by finding beginning of selection with Direct Search System.

21 Remote control signal transmitter section

To use, point the transmitter section at the Remote sensor window 13 and press the operating buttons.

DISC LOADING

■ Opening

The drawer cannot be opened or closed unless the power is switched on.

1. When the Power switch ① is turned ON, the Digital display ⑭ will light "0".
2. When the Drawer Open/Close button ④ is pressed, the Drawer opens. Simultaneously, the Open/Close indicator ⑰ flashes. When the Drawer is fully open, the Open/Close indicator ⑰ goes out.

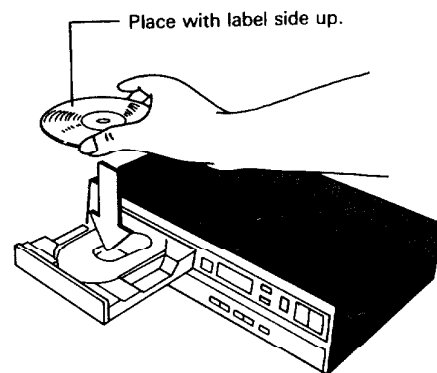


■ Disc loading

1. Holding the disc so that your fingers do not touch its surface, place it in the Drawer ② with the label side up. Check to make sure that it is resting securely on the center hub in the Drawer recess.
2. When Drawer Open/Close button ④ is pressed, the Drawer moves in and the disc is loaded. Simultaneously, the Track number indicator and Index indicator flash "0".

CAUTION:

- Press the Drawer Open/Close button if you find that your fingers or any objects are stuck or wedged in the Drawer. The Drawer will open.
- Do not insert objects into the disc drawer. It could result in a malfunction.
- Do not force the Drawer open or closed by hand.
- When not using the player, keep the Drawer closed to prevent the entry of dust and dirt.
- Do not press down hard on the disc drawer when loading a disc, since it may result in damage to or malfunction of the drawer.
- To open the Drawer, press the Open/Close button and confirm that the Open/Close indicator is lit.



3. The loaded disc will rotate for several seconds while the player reads its contents, and will then come to a stop.

The Digital display ⑭ will display the total number of tracks on the disc. When the Track/Time button ③ is pressed, the Digital display ⑭ will display the total playing time on the disc.

Whenever the disc is in the stop mode, these indicators will display the total number of tracks (or total playing time).

- After placing the disc on the Drawer, if the Play/Pause button ⑤ is pressed directly without closing the Drawer, the Drawer will close and the unit will enter the play mode.
- So long as the power is turned on, whenever the Drawer Open/Close button ④ is pressed the Drawer will open. If the Open/Close button is pressed while the Drawer is opening or closing, the operation will be reversed.
- If the Drawer Open/Close button ④ is pressed during play, the Drawer will open and the programmed tracks or repeat command will be released.

DISC PLAY

1. Press the Power switch ①. Then press the Drawer Open/Close button ④ to open the Drawer and load the disc.
2. Once the disc has been loaded, press the Drawer Open/Close button ④ to close the Drawer.

NOTE:

The loaded disc will automatically rotate for several seconds while the player reads the number of tracks, playing time, etc., and then stops. Only perform the various operations for playing after the total number of tracks is displayed on the display.

3. Press the Play/Pause button (▶/■) ⑤ to start play.
4. Press the Play/Pause button (▶/■) ⑤ when a temporary halt is desired during disc play.
5. Press the Stop/Clear button (■) ⑥ to stop play. The program is cleared at the same time.
 - When the disc comes to the end of the last track, it will automatically stop.

- If the total number of tracks is not displayed after disc loading, check to make sure you have not placed the disc upside down. Try to load the disc again.
- If playback does not begin after pressing the Play/Pause button ⑤, try pressing the Stop/Clear button ⑥ once, then operate again for playback.
- If a disc is loaded, play will begin automatically when the timer function operates to turn on the power. To stop playback, press the Stop/Clear button ⑥.

1 Direct Search System

- **To begin disc playback from a desired track**
With the player in the stop mode, select the desired starting track number using the Forward skip/Track number button (▶▶) ⑪ or the Reverse skip/Track number button (◀◀) ⑫. The selected track number will flash in the Digital display ⑭. When the Play/Pause button (▶/■) ⑤ is pressed, the number shown in the Digital display ⑭ will switch from flashing to steadily lighted, and the playback will begin from the selected track number.
- **To move to a desired track during playback**
When the player is already in the playback mode and you wish to move to a different track, select the new track number using the Forward skip/Track number button (▶▶) ⑪ or the Reverse skip/Track number button (◀◀) ⑫. The selected track number will light, and playback will begin at that track.

To use the Reverse skip/Track number button (◀◀) ⑫ to return to a track several tracks earlier than the presently playing track, refer to the section on Skip Search System.

Model gcd-300 only

When the disc player is in the stop mode, if the Forward skip/Track number button (▶▶) ⑪ or the Reverse skip/Track number button (◀◀) ⑫ is pressed continuously, the track number displayed will change continuously. This allows you to select track numbers in the forward or reverse directions quickly.

When the player is in the playback mode, even if the Forward skip/Track number button (▶▶) ⑪ or the Reverse skip/Track number button (◀◀) ⑫ is pressed continuously, the track numbers will not change continuously. Select track numbers by pressing the appropriate button consecutively once at a time.

2 Skip Search System

- **To listen to the track following that presently being played**
When the player is in the playback mode, press the Forward skip/Track number button (▶▶) ⑪ once. The number of the track following that presently playing will light in the Digital display ⑭, and the playback will begin at that track.
- **To listen to the presently playing track once again**
When the player is in the playback mode, press the Reverse skip/Track number button (◀◀) ⑫ once. The number of the presently playing track will light in the Digital display ⑭, and the playback will start from the beginning of the track.
- **To listen to the track previous to the one presently playing**
When the player is in the playback mode, press the Reverse skip/Track number button (◀◀) ⑫ two times in succession. The Digital display ⑭ will display the number of the previous track, and playback will begin from that track.

When the Digital display ⑭ is in the time display mode, the display changes to the Track display while the ▶▶ or ◀◀ button is pressed.

3 Program play with random memory search system

The random memory track search function searches for the desired tracks on the disc in the desired order and plays them automatically.

1. Load the disc and start programming after the Digital display ⑭ has displayed the total number of tracks.
2. First select the desired track numbers using the Forward skip/Track number button (▶▶) ⑪ or the Reverse skip/Track number button (◀◀) ⑫; press the Memory button ⑧ after each selection. The number of the selected track will be shown on the Digital display ⑭ and the Program indicator ⑰ will light.

(Example)

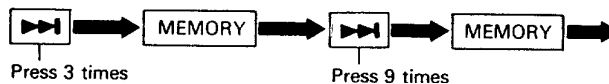
To select the third track, press the Forward skip/Track number button (▶▶) ⑪ three times, and then press the Memory button ⑧. To select the twelfth track, press the Forward skip/Track number button (▶▶) ⑪ nine times, followed by the Memory button ⑧. A maximum of 15 tracks may be programmed in this way.

NOTE:

If more than 15 selections are programmed, the selection after No. 15 will not be memorized.

(Example)

To program the third track and the twelfth track



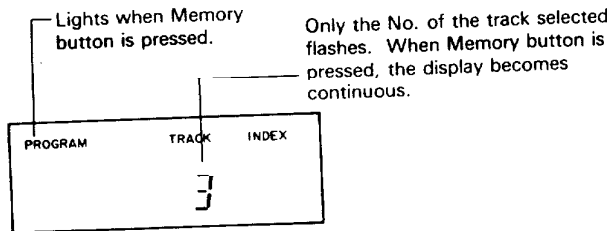
3. Press the Play/Pause button (▶/■) ⑤. The tracks are automatically played in the programmed order.

Possible manual operations during Program play

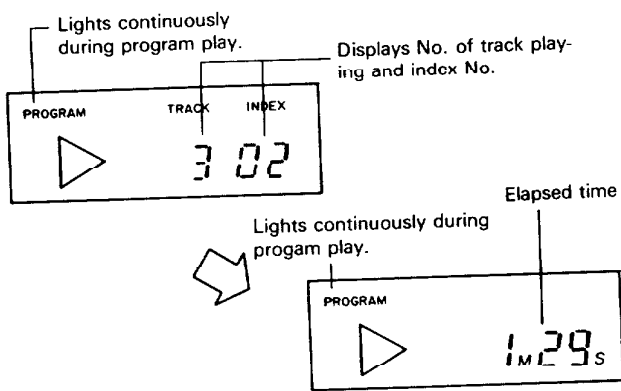
Even when the random memory search system has been used to initiate programmed playback, the pause and manual search functions may still be used without erasing the programmed tracks. In addition, the Skip Search System may be used as long as they are within the range of the programmed contents.

■ Displays with random memory track search

- During programming, the track number of the selected track only will be displayed on the Digital display ⑭.



- During program playback, the Digital display ⑭ will display the track number of the track being played, and its index number. When the Track/Time button ③ is pressed, Digital display ⑭ will display the elapsed playing time.



■ Clearing the program contents during programming

If a mistaken track number is selected during programming, use the Forward skip/Track number button (▶▶) ⑪ or the Reverse skip/Track number button (◀◀) ⑫ to select the correct track number before pressing the Memory button ⑧.

NOTE:

If you wish to correct a track number after pressing the Memory button ⑧, it will be necessary to press the Stop/Clear button (■) ⑥ and erase all programmed contents, and thus start the programming again from the beginning.

■ Clearing all the programs

When you wish to clear all selections programmed, press the Stop/Clear button (■) ⑥. When the programs are cleared, the Program indicator ⑰ will go out, and the Digital display ⑭ will display the total number of tracks on the disc.

NOTES:

- When all programmed selections have been played, the program will be cleared.
- If the Stop/Clear button (■) ⑥ is pressed during program play, the playback will be stopped and the program will be cleared. At the same time, the Program indicator ⑰ will go out.

4 Repeat play

Repeat play can be performed with all the tracks on the disc, or only those tracks programmed. In addition, you can perform repeat play between any two designated points on the disc.

■ When you wish to repeat all tracks, or only programmed selections

- When the Repeat button ⑦ is pressed, the Repeat indicator ⑱ lights to indicate repeat play. Unless the random memory search system is used, all the tracks will be played repeatedly until the Stop/Clear button (■) ⑥ is pressed. If the random memory search system is used, only those tracks which have been programmed will be played repeatedly.
- When the Stop/Clear button (■) ⑥ is pressed, repeat play is cancelled, and the Repeat indicator ⑱ will go out.

NOTES:

- If the Repeat button ⑦ is pressed during normal playback, repeat play of all programs on the disc will commence.
- Even if the Repeat button ⑦ is pressed during program play, repeat play will commence.

■ Repeat play between two points

- During playback, press the Repeat button ⑦ at the point at which you wish repeat play to begin; press the Repeat button ⑦ again at the point at which you wish repeat play to end. The playback will return to the first point at which you pressed the Repeat button ⑦, and repeat play will begin there.
- "REPEAT" of the Repeat indicator ⑱ will light the first time you press the Repeat button ⑦, and "A-B" will light the second time you press the button, thus indicating "Repeat play between two points".
- To cancel "Repeat play between two points", press the Repeat button ⑦ once again. The Repeat indicator ⑱ will go out, and the unit will be switched to the normal playback mode.

NOTE:

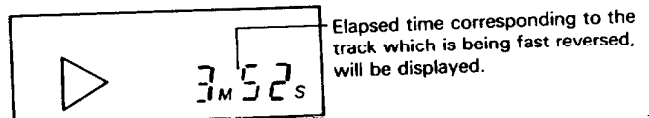
Repeat play between two points cannot be performed during play when the random memory search system is being used.

5 Manual search

With this function, you can listen quickly to chosen selections. It is very convenient for searching for a chosen portion of a long program and beginning playback from that portion.

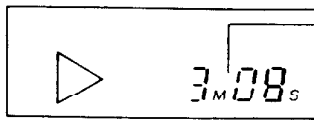
■ Fast forward manual search

During playback, if the Fast forward/Index button (▶▶) ⑨ is pressed continuously, playback will be advanced quickly during the time this button is held depressed.



■ Fast reverse manual search

During playback, if the Fast reverse/Index button (◀◀) ⑩ is pressed continuously, playback will be fast reversed as long as the button is held down.



Elapsed time corresponding to the track which is being fast reversed, will be displayed.

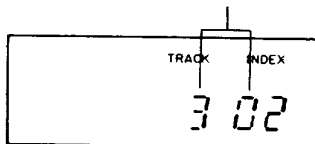
- During the manual search operation, when you have found the part of the track you wish to hear, release the Fast forward/Index button (▶▶) ⑨ or the Fast reverse/Index button (◀◀) ⑩ and normal playback will resume from that point.
- When performing manual search, the volume will be lower than during normal play.
- If the manual search operation is begun from the pause mode, you can search for your desired location using the Digital display ⑭ alone without any sound being produced.

- When the Digital display ⑭ is in the Track/Index display mode, the display changes to the Time display mode automatically while the ◀◀ or ▶▶ button is pressed.
- For the manual search, two speed modes of searching are reserved. If kept depressed, the 2nd faster mode will be performed.

⑥ Index search

With this function, you can perform selection and playback of specific portions of a track according to their index numbers. Use the Forward skip/Track number button (▶▶) ⑪ or the Reverse skip/Track number button (◀◀) ⑫ to select the number of the desired track. Then, use the Fast forward/Index number button (▶▶) ⑨ or the Fast reverse/Index number button (◀◀) ⑩ to select the desired index number. When the Play/Pause button (▶/■) ⑤ is pressed, the playback will begin from the designated index number of the selected track.

Your chosen track number and index number will be displayed.



Index (INDEX)

- Indexing means that a single track has been divided into even smaller divisions, and each such division has been assigned an "index number". Before playing, consult the instructions for your particular disc.
- If you press the Play/Pause button (▶/■) ⑤ after selecting an index number not listed on your disc's instructions, the player will automatically stop.

⑦ Pause-standby

By using the following four methods, you can search for tracks or parts of tracks and place the unit in the pause (standby) mode. When the Play/Pause button (▶/■) ⑤ is pressed, playback will begin.

■ Searching for the first track on the disc

After loading the disc in the player, merely press the Play/Pause button (▶/■) ⑤ and press it again while the Play indicator ⑱ is flashing.

■ Searching by random memory search system

1. Perform random memory programming.
2. Press the Play/Pause button (▶/■) ⑤ and press it again while the Play indicator ⑱ is flashing. The player will search for the first track entered in its memory and enter the pause mode.

■ Searching by Direct Search System

1. Select the track number you wish to listen to using the Forward skip/Track number button (▶▶) ⑪ or the Reverse skip/Track number button (◀◀) ⑫.
2. Press the Play/Pause button (▶/■) ⑤ and press it again while the Play indicator ⑱ is flashing. The unit will search for the selected track and enter the pause mode.

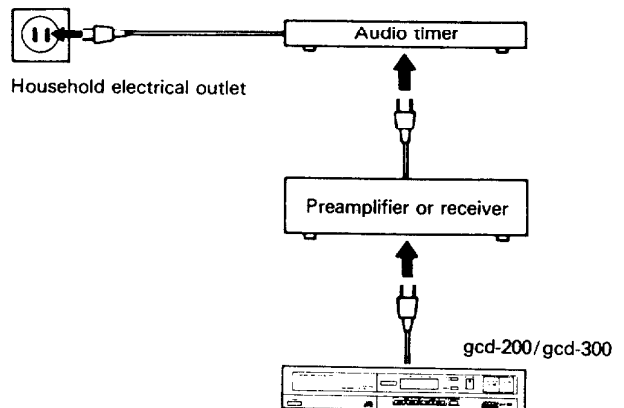
■ Searching by index search

1. Perform index search operation.
2. Press the Play/Pause button (▶/■) ⑤ and press it again while the Play indicator ⑱ is flashing. The player will search for the selected index portion and enter the pause mode.

⑧ Timer playback

Timer playback can be performed when the player is used with a separately purchased audio timer.

1. Set your preamplifier or receiver's function switch to the position corresponding to the gcd-200/gcd-300.
2. Turn on the power to the gcd-200/gcd-300 and load a disc.
3. Set your timer to the time at which you wish playback to begin (temporarily turn off power to the preamplifier or receiver and gcd-200/gcd-300 when doing this).
4. At the time set on the timer, playback will begin from the first track of the disc.
Be sure to set the output volume of the preamplifier or receiver to the desired level beforehand.



WIRELESS REMOTE CONTROL MODEL gcd-300 only

Corresponding operation buttons on the gcd-300 player and the remote controller perform the same functions. Operation can be performed with either this unit or the remote control.

NOTE:

This unit is for use only with the compact disc player gcd-300. It cannot be used with other components (cassette tape deck, etc.)

■ Program number buttons

Use the Program number buttons (20) only when specifying a track number.
(You cannot specify an index number using the program number buttons.)

• Specifying the track number while the unit is in the stop mode

1. Specify the desired track number using the Program number buttons (20). The specified track number will flash in the Digital display (14).

[To change the track number (or if you pressed the wrong track number), specify the correct track number while the indicator is flashing.]

2. By pressing the Play/Pause button (5), the disc will be played from the specified track.

• Specifying a track during play

1. Specify the desired track by pressing the program number buttons (20).

[The track number/index number (or time) for the track being played will remain on the digital display (14), the specified track number will not appear.]

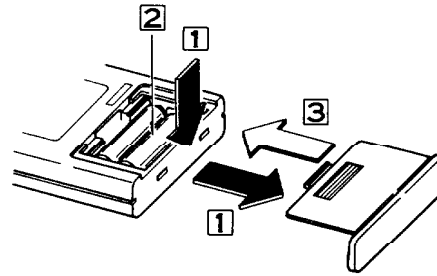
2. By pressing the Play/Pause button (5), play will commence from the specified track number.

NOTE:

A track number which is not on the disc can't be selected.

■ Loading batteries

- 1 To remove the battery compartment lid, press down on it while sliding as shown in the figure below.
- 2 Insert batteries with their \oplus \ominus polarities correctly matched to the diagram inside the battery compartment.
- 3 Replace the battery compartment lid, sliding it on until it locks into place with a "click".



■ If the batteries are used incorrectly, there is a danger of the internal fluid leaking or the batteries bursting.

- Do not use new and old batteries together.
- Do not use different kinds of batteries together.
- Batteries consist of rechargeable and nonrechargeable types. Verify the type of battery by reading the caution label on the battery.
- If you are not going to use the remote control unit for a long period, remove the batteries.
- Do not heat, disassemble, or short circuit dry batteries, or throw them into a fire.

MAINTENANCE

■ Treat disc surfaces carefully

Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs. To clean-off, use a soft cloth. Do not use a rough cloth since this will mark the disc.


■ Clean cabinet and panels when dirty

Clean off dirt on the surfaces with a dry cloth. Never use thinners, benzene or alcohol since these will damage the surface finish.

TROUBLE SHOOTING

Trouble	Cause	Remedy
Power is turned on, but indicators do not light.	1. Power plug is not connected securely.	1. Insert the power plug into the power outlet securely.
Drawer Open/Close button is pressed, but Drawer does not open.	1. Open signal is not received correctly.	1. Press the Drawer Open/Close button again and confirm the Open/Close indicator is flashing.
Disc is loaded, but total number of programs is not displayed.	1. Disc is loaded upside down. 2. Disc is dirty. 3. Disc used is nonstandard.	1. Load the disc correctly. 2. Clean the surface of the disc. 3. Replace the disc.
Play/Pause button (▶/■) is pressed, but play does not begin.	1. Disc is dirty. 2. Disc has scratches or is warped.	1. Clean surface of disc. 2. Replace disc.
No sound is produced.	1. Connector pin-cords are not connected.	1. Connect the connector pin-cord to the output terminals of the player and the input terminals of the amplifier.
Sound is distorted.	1. Connections to amplifier are wrong. 2. Amplifier output is set too high and sound is being clipped.	1. Connect player to amplifier correctly. 2. Turn down the amplifier output volume.
A particular spot on the disc does not play correctly (sound cuts out, or same spot is repeated).	1. Disc has scratch or other damage. 2. Disc is dirty.	1. Use the Fast forward/Index button to pass over the part scratched. 2. Clean the surface of the disc.

PRECAUTIONS FOR USE

- Discs which can be played on this player have the following mark on them 
- During playback, if the player is subjected to a sudden shock or jolt, some noise may be produced. This is not a malfunction.
- If the player is operated while you are receiving an FM/AM radio broadcast, you may hear noise on the radio broadcast. In this case, turn the CD player's power switch off.
- If other audio components or their connecting cords are installed near this player, you may hear a humming sound. In this event, try changing the location of the other components or their wiring.
- Whenever moving the player, be sure to first remove the disc from it. If the player is moved with a disc loaded, the disc may be damaged.
- The gcd-200/gcd-300 has a wide dynamic range. As a result, if you turn your amplifier's volume up too high during soft (low volume) parts of a program, your speakers may be damaged when the dynamic range of a sudden loud passage is produced.
- Do not move the player suddenly from a very cold room into a warm room. When a chilled player is moved suddenly to a warm location, moisture condensation may form on the pickup lens, preventing proper operation. In this case, wait 30 minutes before resuming play.
- Do not place foreign objects in the disc drawer and attempt to operate the drawer control (Open/Close) function. It may cause damage to the mechanism.
- Do not store discs in high-temperature, high-humidity locations. The discs may develop warps and become unplayable. Also, discs with moisture on them may be unplayable. Wipe any moisture off with a soft, dry cloth, and be sure discs are fully dry before using.
- If the unit is installed in a confined location, heat dissipation will be poor and malfunctions may occur. Also, do not install the unit on top of amplifiers or other components liable to become hot.

SPECIFICATIONS

AUDIO

Number of channels	2
Frequency response	5-20,000 Hz \pm 0.5 dB
Dynamic range	92 dB (IHF-A)
Signal-to-noise ratio	95 dB (IHF-A)
Harmonic distortion	0.004% (at 1 kHz)
Separation	92 dB (at 1 kHz)
Wow/flutter	Less than measurable limits (\pm 0.001% W. peak)

Output voltage 2.0 V

DISCS USED

Playing time	Compact Disc
Diameter	Approx. 60 minutes/one side 120 mm

SIGNAL FORMAT

Sampling frequency	44.1 kHz
Quantization number	16 bit linear/channel
Transmission bit rate	4.3218 Mb/sec

PICK-UP

System	Object lens drive system optical pick-up
Object lens drive system	2-dimensional parallel drive
Optical source	Semiconductor laser
Wavelength	780 nm

GENERAL

Power requirements	AC 120 V, 60 Hz
Power consumption	12 W
Dimensions	17-1/8" (W) x 3-1/4" (H) x 10-3/8" (D)

Weight 9.5 pounds

WIRELESS REMOTE CONTROL [Model gcd-300 only]

Dimensions	5-5/16" (W) x 2-1/2" (H) x 11/16" (D)
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Weight 2.3 ounces

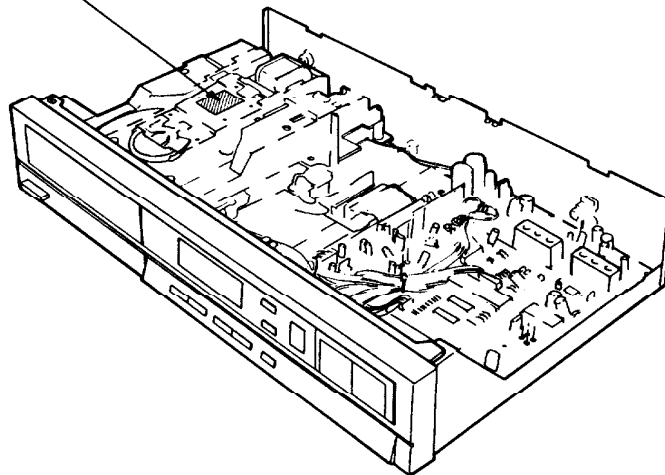
ACCESSORIES

Connecting pin cords	
Wireless remote control (Model gcd-300 only)	

Specifications and design may be changed without notice for improvement.

WARNING LABEL INSIDE THE UNIT

DANGER
Invisible laser radiation when open and inter lock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM.



THIS LASER COMPACT DISC PLAYER FUNCTIONS BY HELP OF INVISIBLE LASER LIGHT AND IS EQUIPPED WITH SAFETY SWITCHES TO AVOID EXPOSURE WHEN DOOR IS OPEN AND SAFETY INTERLOCKS ARE DEFEATED. IT IS DANGEROUS TO SET SAFETY SWITCHES OUT OF FUNCTION.

THERE ARE NO USER'S SERVICEABLE PARTS INSIDE THE UNIT, LEAVE ALL SERVICE TO QUALIFIED SERVICE PERSONNEL.